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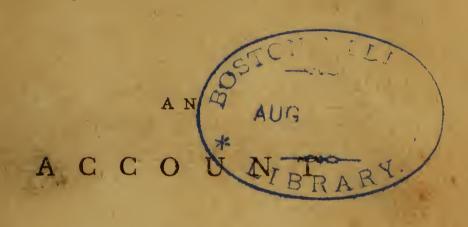
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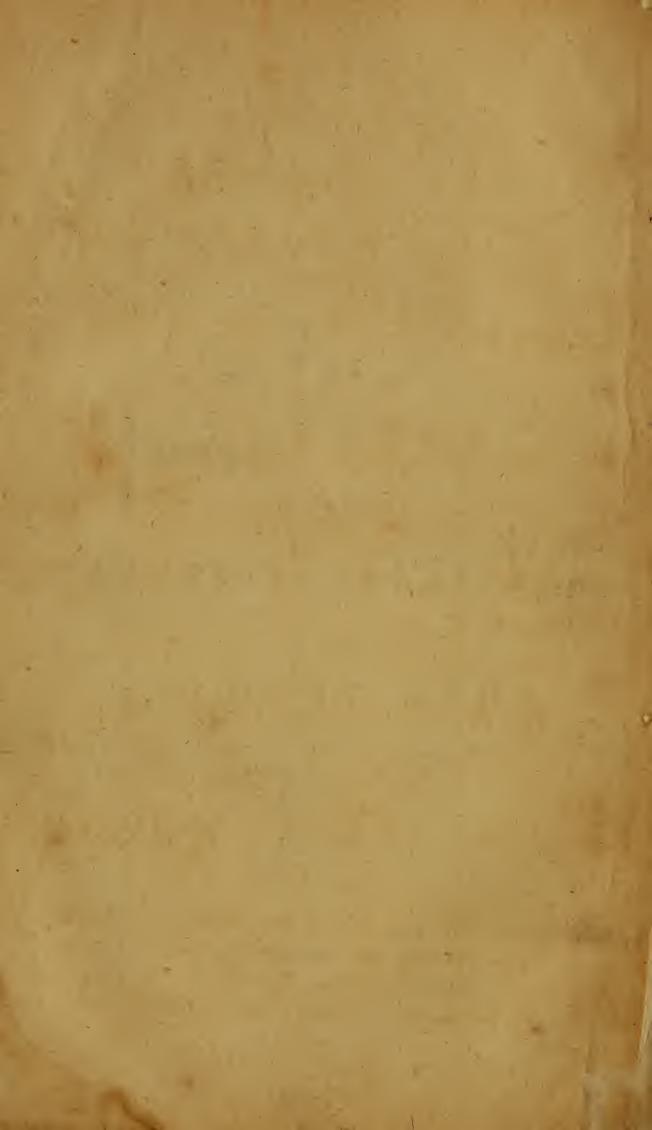


OF

### THE SCARLET FEVER

AND

SORE THROAT.



### ACCOUNT

OF THE

# SCARLET FEVER

. AND

SORE THROAT,

OR

### SCARLATINA ANGINOSA;

PARTICULARLY AS IT APPEARED AT BIRMINGHAM IN THE YEAR 1778.

By WILLIAM WITHERING, M. D.

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### ADVERTISEMENT.

THE Author wishes it to be understood, that whatever is advanced in the following pages, is founded upon his own observations, except where the contrary is expressly mentioned. In order to make the pamphlet useful, it was necessary to publish it speedily: this circumstance he pleads in excuse for small Errors, conscious that no great ones will be found.

BIRMINGHAM, 1st January, 1779.

#### OF THE

### SCARLET FEVER,

ÁND

## SORE THROAT,

As it appeared at Birmingham, in the Year 1778.

Birmingham, about the middle of May, and in the beginning of June was frequent in many of the towns and villages in the neighbourhood. It was preceded by fome cases of the true ulcerated fore throat, and accompanied in its course thro' the summer by the chin-cough, the measles, the small-pox, and several instances of the true quinfy.

It continued in all its force and frequency to the end of October, varying however in some of its symptoms

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as the air grew colder. In the beginning of November it was rarely met with, but towards the middle of that month, when the air became warmer, it increased again, and in some measure resumed those appearances which it possessed in the summer months, but had lost during the cold winds in October.

FOR THE TOTAL SEE 18 TO

Subjects.

It affected children more than adults; but feldom occurred in the former under two years of age, or in the latter when more than fifty. In children the number of boys and girls that fuffered from it was nearly equal, but in adults the number of female patients confiderably exceeded that of the male; probably because the former were more employed in attendance upon the sick, and consequently more exposed to the insection.

On the first seizure the patients feel Mode of attack. an unusual weariness, or inaptitude to motion; a dejection of spirits, and a flight foreness or rather stiffness in the throat; with a fense of straitness in the muscles of the neck and shoulders as if they were bound with cords. In a few hours chilly fits take place, generally alternating with flushing heat; but at length the heat prevails altogether. The patients now complain of flight head-ache, and transitory fits of fickness. They pass a restless night, not so much from pain, as from want of inclination to fleep.

The next day the foreness in the Second day, throat increases, and they find a difficulty in swallowing, but the difficulty seems less occasioned by the pain excited in the attempt, or by the strait-

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ness of the passage, than by an inability to throw the necessary muscles into action. A total disrelish to food takes place, and the fickness frequently arises to a vomiting. The breathing is short and often interrupted by a kind of imperfect figh. The skin feels hot and dry, but not hard; and the patients experience frequent, small, pungent pains, as if touched with the point of a needle. Towards evening the heat and restlessness increase; the breath is hot and burning to the lips; thirst makes them wish to drink, but the tendency to sickness, and the exertions necessary to frequent deglutitions are so unpleasant, that they seldom care to drink much at a time. This night is passed with still greater inquietude than the former. In the Third day morning the face, neck, and breast, appear redder than usual; in a few

hours

hours this redness becomes universal, and increases to such a degree of intensity, that the face, body, and limbs, resemble a boiled lobster in colour, and are evidently swollen. Upon pressure the redness vanishes, but soon returns again. The skin is smooth to the touch, nor is there the least appearance of pimples or pustules. The eyes and nostrils partake more or less of the general redness; and in proportion to the intensity of this colour in the eyes, the tendency to delirium prevails.

Things continue nearly in this state Scarlet confort two or three days longer, when nishes the intense scarlet gradually abates, a brown colour succeeds, and the skin becoming rough, peels off in small branny scales. The tumesaction substitutes at the same time, and the patients

tients gradually recover their strength and appetite.

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During the whole course of the Feyer, the pulse is quick, small and uncommonly seeble. The bowels regular in their discharges. The urine small in quantity, but scarcely differing in appearance from that of a person in health. The submaxillary glands are generally enlarged, and rather painful when pressed by the singers.

The tongue is red and moist, at the end and at the sides, but drier in the middle, and more or less covered with a yellowish brown mucus. The velum pendulum palati, the uvula, the tonsils, and the gullet as far as the eye can reach, partake the general redness and tumesaction. I never saw any real ulceration in these parts, but sometimes collections

Afterna a medical properties a

ly on the back of the colophagus, greatly resembling the specks or sloughs in the putrid Sore Throat, but these are easily washed away by any common gargle.—After the Fever ceases, it is not uncommon to have abscesses form on Abscesses. one or both sides of the neck under the ears, but the matter easily discharges itself through the ruptured teguments, and they heal in a few days without much trouble.—

The above is a picture of the difease in its most usual appearance; but it too frequently assumes a much more fatal form.

and mining of the property of the passing to

In children, the delirium commences Dangerous fymptoms in a few hours after the first seizure. in children.

The slesh is intensely hot: the scarlet colour appears on the first or second day

day, and they die very early on the third.

In others who survive this rapid termination, when the fcarlet colour turns to brown, and you would expect their recovery, the pulse still remains feeble and quick, the skin becomes dry and harsh, the mouth parched, the lips chopped and black; the tongue hard, dry and dark brown, the eyes heavy and funk; they express an aversion to all kinds of food, and extreme uneafiness upon every the least motion or disturbance. Thus they lie for feveral days, nothing feeming to afford them any relief. At length a clear amber coloured matter discharges in great quantities from the nostrils, or the ears, or both, and continues so to discharge for many days. Sometimes this discharge has more the appearance of pus, mixed with \$ Th

with mucus. Under these circumstances when the patients do recover, it is very slowly; but they generally linger for a month or six weeks from the first attack, and die at length of extreme debility.

In adults, the rapidity of the fever, In adults. the delirium, &c. is fuch that they die upon the fourth or fifth day, especially... if a purging supervenes. Some furvive to the eighth, or to the eleventh day; in all these the throat is but little affected: the eyes have an uncommon red appearance, not that streaky redness which is evidently occasioned by the vessels of the cornea being injected with red blood, but an equable shining redness, resembling that which we remark in the eye of a ferret\*. But notwithstanding this morbid appearance in the

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<sup>\*</sup> Mustela suro. LINN...

eye, the strongest light is not offensive. This appearance may often be discovered, by lifting up the upper eyelid, some hours before it shews itself in the part of the eye that is usually visible, and it is of some consequence to attend to this circumstance, as it greatly influences the event of the case.

Livid spots Besides the full scarlet colour described above, there are frequently small circular spots of a livid colour about the breast, knees and elbows. The patients are extremely refiless, clamourous, and defirous to drink; but after swallowing one or two mouthfuls, upon taking another, feem to forget to fwallow, and let it run out at the corners of the mouth; whilst others spurt it out with confiderable force, and are very angry if urged to drink again. In these cases, the scarlet colour appears very foon

foon after the attack, but in an unfettled irregular manner; large blotches of red, and others of white intermixed and often changing places. The pulse from the very beginning so quick, so feeble, and fo irregular, that it is hardly possible to count it for half a minute at a time .--- It is needless to add, that the greater part of those who laboured under these dreadful symptoms died. A few recovered, and others fell into a flate of debility bordering upon ideotism, from which they were rescued by time, and generous living .----

In one patient, a man, the jaw was Particular for perfectly locked upon the third day, that it was impossible to get any thing down his throat; and he died early upon the fifth day. In one man, when the scarlet of the skin was turning brown, several white blisters arose

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arose upon different parts of his hands and feet, which when cut open appeared quite dry; but in a boy where similar blisters appeared, some of which were cut in a few hours afterwards, a thin pellucid watery sluid was discharged. In this case too the scarlet colour of the skin, the second day after its appearance, changed to a dark lead, or rather violet colour. I have been told of three instances, in which the defquamation was so complete, that even the nails separated from the singers.

Autumnal appear-

These were the appearances during the hot months, but in the month of October, when the air became colder, the scarlet colour of the skin was both less frequent and less permanent. Many patients had no appearance of it at all, whilst others, especially adults, had a sew very minute red pimples, crowned with

with white pellucid heads, but these only appeared in the parts where the skin is most tender. The inside of the throat was very confiderably tumefied, fo as to render deglutition painful and difficult; its colour a dull red, sometimes tending to a livid. This affection of the fauces in some patients seemed to extend down the gullet to the stomach, and was accompanied with painful efforts to vomit, particularly whenever any thing was fwallowed: in others it spread itself down the windpipe to the lungs, as was evident from the cough, the strait breathing, and other peripneumonic symptoms. And in others again, its progress along the Eustachian tube was indicated by sharp pains in the ear. The eyes had less of that redness described before, but still a flight tinge of it was visible, together with the shining watery appearance which 5

which in the measles is so remarkable, and a great aversion to light. The patients too had always a general painful foreness in all the limbs, and not unfrequently very acute pains in the ancles, knees, wrists and elbows, attended with more or less swelling where the pain was most violent.

In most of these cases, the pulse beat 130 or 140 strokes in a minute, small, but yet hard, and sometimes sufficiently so to justify the opening of a vein. The blood thus taken away, in every instance when cool, appeared sizy, and the whole crassamentum firm.

Through the course of the disease large quantities of viscid mucus, and other matter with much of the purulent appearance, were from time to time discharged from the throat and nostrils.

Some threw out several white or ashcoloured soughs, though no such sloughs
were visible upon inspecting the throat;
but in most, the fauces, particularly the
tonsils were covered with them, and upon their separation appeared raw, as if
divested of their outer membrane.

The Fever under this autumnal appearance, generally terminated favourably on the fifth, eighth, or eleventh day, but sometimes was protracted to a much greater length, by the formation of large painful abscesses; and Ihave been told of several cases that were followed by a numerous fuccession of boils upon different parts of the body. But no fymptom was more troublesome to fome individuals, than exulcerations at the fides and down towards the root of the tongue, which were fo painful as to deprive them of the power to take folid food, even feveral days after the inclination for it had returned.

# Of the consequential Disease.

TAPPY would it be for the ease of the practitioner, but still more so for that of the patient, if the baleful influence of the Scarlet Fever and Sore Throat had its termination here. But in ten or fifteen days from the ceffation of the Fever, another train of fymptoms demands the attention of the former, and exercises the sufferance of the latter. They feel, after a few days amendment, a fomething that prevents their further approach to health: an unaccountable languor and debility prevails, together with a stiffness in the limbs, an accelerated pulse, difturbed fleep, difrelish to food, and a paucity of urine.

of allests, from commet the receipt of

These symptoms are soon followed by an universal swelling of the anasarcous kind, and sometimes an ascites. Dropsy. In some patients the feverish disposition runs high, in others it exists only in a moderate degree. In some the dropfy affects the brain, producing coma-vigil, delirium, blindness; with the most enlarged expansion of the iris, which is incapable of contraction in the strongest light. In others, the dropfy falls upon the lungs, and produces every fymptom of the true hydrops pectoris. The tongue is dry and brown; the skin harsh; the urine of a deep mahogany colour, fmall in quantity, and depositing a sediment of a still deeper hue, and in a powdery form.

The urgency of these symptoms, added to the very evident appearance

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of disease, soon compel the patients or their friends to apply for assistance, and the event, under the mode of treatment hereaster to be described, is almost always favourable.



### Of the Scarlet Fever,

As described by Medical Authors.

If the Scarlet Fever in its simple state, is not a very uncommon disease in England, but its combination Common disease in England, but its combination Common disease. With a fore throat, as described above, the violence of its attack, and the train of stall symptoms that follow; are circumstances hitherto unnoticed by English writers. Sydenham gives us a chapter upon the Scarlet Fever, in which he observes, (a) that it ge-

(a) Scarlatina febris, licèt nullo non tempore possitincidere, ut plurimum tamen exeunte æstivo se prodit, quo quidem integras familias, infantes vero præ cæteris infestat. Rigent, horrentque sub initio ut in aliis febribus, qui hâc assiciuntur, neque vehementer admodum ægrotant: postea cutis universa maculis parvis rubris interstinguitur, crebrioribus certè et multo latioribus, magisque rubentibus, at non perinde uniformibus, ac sunt oillæ quæ Morbillos constituunt. Ad duos trésve dies persistant hæ maculæ, quibus demum eyanescentibus dece-

nerally makes its appearance toward the end of fummer, that it attacks whole families, but particularly children; that they are feized with chillness and shivering as in other fevers, but without much sickness. Afterwards the whole skin is covered with small red spots, more numerous, much

dentéque subjectà cuticulà, reslant sursuraceæ quædam squamulæ ad instar farinæ corpori inspersæ, quæ ad secundam aut tertiam vicem se promunt, condúntque vicissim.

- Satis habeo, ut æger à carnibus in folidum abstlineat, et à liquoribus spirituosis quibuscunque, tum ut neque usquam sorâs prodeat, neque se perpetim lecto assigat. Cute jam penitùs desquamatâ, et cessantibus symptomatis, è re sore existimo ut purgetur æger leni aliquo medicamento, ætati atque viribus accommodo. Simplici hâc et naturali planè methodo, hoc morbi nomen (vix enim altius assurgit,) sine molestia, aut periculo quovis sacillimè abigitur. - - - - - - - - - Veruntamen hoc animadvertendum volo. Si convulsiones

Veruntamen hoc animadvertendum volo. Si convulsiones Epilepticæ vel etiam Coma, huic morbo sub initium eruptionis supervenerint (quod quandoque accidit in pueris ac junioribus hoc morbo laborantibus) omnino oportet ut Epispasticum amplum ac sorte posteriori cervici applicetur, atque, porro ut Paregoricum è Syrupo de Meconio statim exhibeatur, repetendum singulis noctibus usque dum convaluerit; imperando interim ut æger bibat pro potu ordinario lac cum triplo aquæ coctum, et à carnis esu abstineat. Sydenham Sect: sexta. Cap. 2.

broader

broader, of a fuller red, but less uniform than those of the measles: that they continue two or three days. After they disappear and the skin is scaled off, a kind of branny scales remain, which fall off, and again appear for two or three times.

He uses no medicines, but thinks Requires it sufficient that the patients abstain cines. from sless mo medicines. but not in bed. After the desquamation of the skin is compleated, he advises a gentle purge. Thus, says he, by this plain and simple method, this disease, (if it deserves the name of a disease) departs without trouble or danger.

Afterwards he adds, that sometimes Uncomin children or young persons, epileptic toms.

B 3

convulfions

convulsions or coma take place in the first stage of the eruption, and then it is necessary to apply a large blister to the neck, to give a dose of diacodion, which must be occasionally repeated, and to give milk, boiled with thrice its quantity of water, for common drink.

Dover's account

Nearly to the same purpose is the account of Dover, in his physician's legacy, who says, this Fever is of a very mild nature, more manageable than that of the measles, and does not stand in need of the assistance of meadicine.

Appearance in Holland.

Equally tractable with this, is the Scarlet Fever that DE GORTER has obferved in Holland. He says it chiefly prevails amongst children; that after three or four days continuation of a slight Fever, scarlet blotches appear.

That

That they remain but a short time, vanish insensibly, and leave a kind of branny scales behind them. That previous to the eruption, the patients complain of pains, anxiety, heat, and cough, but that these symptoms are never dangerous. (a)

The Scarlet Fever prevailed in London in the summer of the year 1689, with symptoms much more violent than those described by Sydenham, Dover or De Gorter; insomuch that Morton, Morton's account.

(a) Macularum Scarlatinus color, quæ in levi febre oboriuntur; huic morbo dedit nomen. Incipiunt plerumque in tenella ætate, tertio vel quarto die febris levioris; non diu persistunt, insensibiliter evanescunt, relictis in cute quibusdam surfuribus; in facie inchoare solent sensim latiores sacæ maculæ. Reliquam etiam interdum tegunt corpus. Levis videtur biliosa corruptio calore antecedentis æstatis in tenella ætate, motu sebrili ad cutem pulsa, ubi exarescens materia corpus relinquit sanum.

Hæc materia ante eruptionem oberrans, generat febrem, calorem, dolorem, anxietatem, tussim, sine periculo. De Gorter Prax. Med. Tom. 2. pag. 196.

who has transmitted us the account of it, \* calls it a kind of plague. He does not in the cases he relates, mention particularly the affection of the throat, but in the eleventh history (page 53) Symptoms he notices swellings and suppurations of the parotids, producing great difficulty in fwallowing, and the discharge of acrid and corrolive matter from the nose, ears and fauces; in another patient a tumour formed in the left armpit and suppurated; and a lady had an abscess formed just above the pubis which became gangrenous. He then mentions in terms of admiration how much he had observed the tonsils, the uvula, the fauces and the nostrils to have been tumefied; how greatly the lips were fometimes swelled and covered with fordid fcabs and exulcerations. As what is related in this history

\* Exercitatio tertia. Cap. 5.

contains

contains the whole of his observations that approach the nearest to our disease, I shall subjoin it in his own words for the satisfaction of the reader (a). But after all, he considers the

(a) Ante sexennium media æstate simul decumbebant in domo Domini Hook tres ejus filiæ, filiolus unicus, atque Domina Barnadiston ejus matertera, matrona annos septuaginta plus minûs nata. Omnes quasi veneno deleterio perculsi febre, Synochus, unum tenorem servante corripiebantur, Tussi Ferinâ, comate, deliriis, ceterisque malignitatis symptomatis haud obscuris afflicti. Ideóque natura symtomatum id exigente, Alexipharmaca mitiora exhibenda, atque epispastica applicanda jussi. Die autem morbi quarto, quinto, vel fexto, finguli fcarlatinam efflorescentiam per cuticulam ubique sparsam perpetiebantur, eámque per septem, octo, vel decem dies protensam. Duæ è filiabus atque filiolus, quarto, vel quinto efflorescentiæ die parotidibus insignibus affligebantur, unde deglutitio adeò præpediebatur ut in præsens vitæ fubsidium (inflammatione urgente, et forti arteriarum vibratione adhortante) venam secare et moderata manu sanguinem detrahere coactus esseni. Alexipharmacorum autem et Vesicatoriorum ope continuatâ, glandulæ parotides (utut venæsectione earum dolor et ardor mitigarentur) debito tempore exulcerabantur, atque apostematis ruptis pus acre et corrosivum per nares, aures et sauces copiosè egerebatur, unde triginta dierum spatio sensim revalescebant. Filia autem natu secunda die tertio vel quarto esflorescentiæ immaniter vociferabatur præ dolore ingente axillam sinistram occupante. Quo circa sanguiThe same with the measles.

Scarlet Fever and the measles to be the same thing. He defines them as such in his synopsis febrium, \* and in ano-

nem è brachio adverso detraxi ad dolorem mitigandum, ex quo dolor allevabatur. Continuatis autem remediis alexipharmacis tumor increvit, buboni non diffimilis, qui tandem exulceratus pus copiosum per plurimos dies effudit, quo demum fanato integram fanitatem formofa ac elegans puellula recuperavit. Verum Domina Barnadiston cùm ad plures dies malè se habuisset, et omnem remediorum usum neglexisset, tandem post sex vel septem dies elapsos carcinomate paulo supra pubem corripiebatur, quod spatio unius vel alterius diei præ virulentia veneni per partem affectam excreti gangrænâ tentabatur. Alexipharmacis autem et epispasticis diligenter adhibitis, et auxiliis chirurgicis peritè applicatis, præter spem adstantium ab hâc peste, licet difficulter admôdum evasit, atque postea ad tres annos superfuit. A Peste (inquam) evasit, quoniam venenum morbi prædicti, pestilentialis fermenti malignitatem adæquabat; et si quando venenum istiusmodi morbillosum crisi persectà per cuticulam propelli haud potest, tanquam venenum pestilentiale glandulas sponte petit narium, faucium, inguinum, &c. easque inflammat et exulcerat, nec non carcinomata, bubones et parotidas excitat. Quantum tonsillas, uvulam, fauces, nares, et quam diu intumuisse vidi! quàm turgida nonnunquam labia! et quam fordidâ scabie obducta et exulcerata ab eâdem causa animadverti! ut nuperrimè filiolo domini Blaney accidet, qui post efflorescentiam peractam sebre, comate, et prædicto symptomate diu affligebatur. Exercit. 3. Cap. 5. p. 53,54.

<sup>\*</sup> Exercitatio prima. Cap. 2. p. 41.

ther place observes (a) that notwith-standing this disease has from the general concurrence of physicians obtained a particular name, yet he thinks it to be altogether the same as the measles, differing only in the mode of the eruption; the former being a continued inflammation or redness equally diffused over the whole cuticle, the latter existing in the form of distinct, oblong or angular blotches. (b)

So long ago as the beginning of the feventeenth century, Sennertus, phy-

- (a) Hunc morbum (utut universali medicorum consensu titulo peculiari donetur) prorsus eundem esse cum morbillis censeo, et solo efflorescentiæ modo ab illis distare, &c. Cap. 5. p. 43.
- (b) Efflorescentiam hanc, interstitiis sigurâ diversâ, oblongâ scilicet quadratâ, vel multangulâ præditis variegatam observare est: namque non unâ continuatâ inslammatione seu rubedine, ut in sebre scarlatinâ, persunditur cuticula. Quo criterio duntaxat hæc efflorescentia ab altera quæ sebrem scarlatinam comitatur dignoscenda est. Cap. 3. p. 17.

fician to the Elector of Saxony, obferved the Scarlet Fever in its more
In Saxony, malignant form, and has given us a
pretty good description of it in his chapter upon the small-pox and measles. ‡
After speaking of the latter he says,
that there is yet another variety which
he has sometimes, but not very frequently, observed, and that he is in
doubt by what name to distinguish it, (a)

‡ Sennertus de febribus. Lib. 4. cap. 5.

(a) Præter has differentias adhuc alia est, sed rarior quidem, quam aliquoties observavi, quo nomine tamen ab aliis discernerem, hactenus dubius fui. Etsi enim instar erysipelatis totum serè corpus prehendat; tamen non vidi quod adultos, quod in erysipelate sieri ferè solet, sed infantes solùm corripiat. Malo ergò ad morbillos referre. - - - - - - - - Maculæ rubræ et quasi ignitæ cum vix effatu digno tumore per universum corpus quasi quædam parva crysipelata erumpunt in principio, seu morbi die quarto vel quinto. In statu verò universum corpus rubrum et quasi ignitum apparet, ac si universali erylipelate laboraret. In declinatione rubor ille imminui, et maculæ rubræ latæ, ut in principio iterum apparent, quæ tandem septimo vel nono die evanescunt. epidermide squamarum instar decidente. malum verò hoc grave ac periculosum et sæpe lethale est. Nam calor est ferventissimus, sitis inextinguibilis, et plefor although it occupies the whole body like an erylipelas, yet the erylipelas chiefly feizes upon adults, but this difease attacks children only, therefore he rather chooses to refer it to the measles. He then describes it in words to the following effect. "Upon the Symptoms.

- " fourth or fifth day of the disease, red
- " fiery blotches appear over the whole
- " body, but without any remarkable
- " fwelling. In the height of the disease
- " this fiery redness occupies the whole
- " surface not unlike an universal erysipe-
- "las. In the decline, the general redness
- " abates, and broad red blotches again-

rumque pulmonum (unde tusses excitantur) faucium et aliorum viscerum inslammationes, deliria et alia mala urgent. In declinatione tandem materia ad articulos extremorum transfertur, ac dolorem et ruborem, ut in arthriticis excitat. Cutis squamarum instar decidit, moxpedes ad talos et suras usque intumescunt, hypochondria læduntur, respiratio difficilior redditur, tandèmque abdomen intumescit, ægrique non sine magno labore, et post longum tempus prissinæ sanitati restituuntur, sæpé etiam moriuntur. Sennertus. lib. 4. Cap. 12. p. 190, 191.

"appear as in the beginning. These "at length fade upon the feventh or "ninth day, and the skin peels off. "This disease is severe, dangerous and "frequently fatal; for the heat is ex-"treme, the thirst inextinguishable, "and accompanied in most cases with "delirium, inflammation of the fauces, " of the lungs, and of other viscera. In "the decline of the fever, the matter " is transferred to the joints of the ex-"tremities, and there excites redness "and pain resembling the gout. The " fkin falls off in scales, and presently " afterwards the feet and legs swell, the "hypochondres are affected, the ref-" piration is rendered more difficult, " and at length the belly swells. These " patients require great care and a "length of time to recover their for-

"mer health; but they often die."

Consequences.

Schultzius describes the scarlet sever and sore throat under the name of purpura epidemia maligna as it appeared in In Poland. Poland in the spring of the year 1664.\*

He remarks, "That the winter was "mild and rainy, (a) that the disease "appeared early in the spring and continued to rage through the whole Season.

" fummer

<sup>\*</sup> Miscellanea naturæ curiosorum. Annus 6. 7. Obs. 145. p. 206.

<sup>(</sup>a) Cum anno 1664 hyems mollis et pluviosa esset, graffabatur apud nos vere primo insequente purpura epidemia maligna, quæ per totam æstatem et autumnum usque in hyemem sæviebat, plurimosque infantes utriusque sexus, et duodecim annum attingentes (nam ultra hanc ætatem vix ascendebat) perimebat. Plerique secundâ die morbi, nonnulli etiam prima morièbantur; illi folummodò evadebant, qui nulla faucium inflammatione vel tumore œdematoso (variabant enim ista pro diversitate naturarum) infestabantur. Tum omnibus ab isto morbo liberatis, post copiosum sudorem (nonnullis etiam diarrhœa, sed tantum unius vel alterius diei critica prosuit) squamæ decidebant, rubore cutis evanescente. Tandem, præsertim natu majoribus, tumor totius corporis, instar leucophlegmatiæ, et infimi ventris sequebatur, qui per aliquot septimanas miseris molestus erat, sudoreque etiam solvebatur, interdum etiam urina largius profluente. --- Miscell. Nat. cur. ann. 6. 7. p. 206.

" fummer and autumn, even to the

" winter following. That it proved

" fatal to a great number of children

of each fex, but hardly affected any

" that were beyond twelve years of age."

He fays, "they mostly died upon "the second day; some upon the first. Symptoms." Those only survived who had no in-"flammation in the throat and no "œdematous tumour. In those who " recovered, after a copious sweat, the " redness of the skin vanished, and a " desquamation followed. In some a " diarrhœa of one or two days conti-" nuance proved critical. After some " time, especially in the older patients, "the whole body was affected with a Dropfy. " fwelling like the leucophlegmacy; the " belly likewise swelled. These symp-" toms continued very troublesome for " feveral weeks; they were carried off "by fweating, and fometimes by a "plentiful flow of urine."

In the medical transactions of Berlin, Decad. 1. vol. pag. 20, we find our disease tolerably well characterised in a few words. (a)

- "In the Scarlet Fever the patients As it appeared at are attacked with shiverings, head-Berlin.
- "ache, nausea; and a vomiting ge-
- " nerally fucceeds. The efflorescence,
- " which is preceded by an elevation of
- "the papillæ of the skin occasioning a
- " roughness, gradually appears upon
- " the fourth or fifth day, extending it-
- " felf over every part of the body, and
- "accompanied with a degree of intu-
- (a) Invasit sebris scarlatina patientes cum rigoribus, cephalalgia, et cardiaca nausea, quam excipiunt, communiter vomitus: efflorescit quarto vel quinto die sensim atque sensim, post præcedaneam asperam papillularum cutanearum elevationem, rubedine per universum corpus a capite usque ad calcem, cum cutis aliquali intumescentia,

" mescence, so that the outward ap-" pearance of the patient resembles a "lobster boiled. This red colour "spreads over all the limbs, the cor-"ners of the eyes, and the infide of " the nostrils. - - - - - - - - ---- " About the feventh day, " but without any previous fweat, the "intense colour abates, the skin be-"gins to peel off, and then it is, " whilst the disease seems to be upon "the decline, that the patients are en-" dangered from congestions about the " fauces accompanied with aphthous "inflammation."

ita ut patientum externus aspectus, reserat ideam cocticancri. Ista rubedo interiora narium, limbosque et angulos oculorum obducit - - - versum septimum diem, sine sudoribus, rubor iste sit remissior, cuticulaque inchoat desquamari, et tunc maxime; dum morbus declinare videtur, sauces aphthodeo-inslammatoria congestione periclitantur.—Acta Med. Berol. Decad. 1. vol. p. 20. & seq.

NAVIER

NAVIER published a letter upon the Epidemic diseases of the year 1753, in which he has recorded a history of the Scarlet Fever and Sore Throat corresponding much nearer to our disease than any account which we have yet examined.\*

He sets out with observing (a) that Navier's account, when the air grew colder, the small-

- " pox almost entirely ceased; upon a
- " warmer air again prevailing, another
- " epidemic disease appeared, sar more
- " inflammatory in its nature than the
- " small-pox, viz. the red or Scarlet Fe-
- " ver. This disease begins with a

<sup>\*</sup> See Plenciz Tractatus de Scarlatina. See also Commentaria de rebus. Part 1. vol. 4. p. 338. The original is publithed in French, but we have taken the Latin translation as given by Plenciz.

<sup>(</sup>a) Variolis tandem a mediocri orto frigore scre penitus extinctis, tempestate dein paulo mitius sacta, alius apparuit epidemicus morbus, variolis longe magis instammatorius, sebris nimirum tubra, scarlauna dicta. Hic

- " most violent Fever, accompanied with
- " faintings, great weariness, pains of
- "the head and throat, and a difficulty
- " in fwallowing.

Floring 4

"On the second day, but frequently

Causas to all Transit totals of

"in twenty-four or thirty hours, large

" red spots, mostly larger than ones

"hand, of a bright scarlet colour,

" and irregular in their figure, appear

"all over the body, covering the

"back, the breast, the thighs and the

"haunches fo completely, that they

"are of one continued scarlet colour.

"These spots are disappearing almost

morbus per febrem admodum vehementem se manisestavit, que animi deliquiis, lassitudinibus spontaneis, capitis sauciumque doloribus deglutitionem impedientibus, comitata erat.

Secundo die, et sæpe post viginti quatuor vel triginta horas in toto corpore maculæ rubræ, vivido scarlatino colore, largæ, manus magnitudinem sæpe excedentes, siguræ irregularis, et dorsum, pectus, semora et nates sæpe ita tegentes, ut unica tantum esse videretur, apparuerunt. Hæ maculæ quovis sere momento disparen-

- " every moment, and like an eryfipelas
- "again appearing in places that they
- " did not occupy before. They feel of
- "a sharp biting heat, especially in
- "adults; and though fo extremely
- " red, when pressed by the singer turn
- "white, but the pressure being re-
- " moved they become red again.
- "The pulse is quick and small, the
- " respiration for the most part diffi-
- " cult, interrupted, and fobbing. The
- " breath fo hot and burning that who-
- " ever feels it is obliged to turn away
- "their face from the patient. Some-

tes, se in alia loca erysipelatis more conferre videbantur, in quibus antea non suerant. Manus easdem tangens, calorem vividam et ardentem præcipue in adultis sentiebat, et cutis ruberrima digito compressa albescens, remoto digito rursus rusescebat.

Pulsus parvus et frequens erat, et respiratio dissicilis et intercepta et singultuosa in plurimis esse videbatur. Halituosus vapor e pulmonibus egrediens adeo calidus et urens deprehendebatur, ut unusquisque hunc percipiens, faciem ab ægro statim avertere cogeretur. Hæc sebris,

"times the hands and arms are wellen.

"This Fever attacks whole families "either altogether or fuccessively."

Dropsical appear- ances.

Navier observes, that he has seen this disease in young children sollowed by a prodigious leucophlegmacy. In one case the leucophlegmacy affected even the eyelids; the urine was brown and very small in quantity, as was not unusual; indeed it sometimes appeared bloody. This patient was cured by the application of blisters, after other necessary steps had been taken.

etiam interdum cum manuum et brachiorum inflatione conjuncta fuit, integrasque samilias, aut insimul, aut successive invasit----Vidit Cl. Auctor infantes hoc morbo laborantes, quibus prodigiosa leucophlegmatia supervenit. Quidam hac sebre laborans et usque ad palpebras leucophlegmaticus, parcissimam brunam urinam reddens, qualem in hac sebre sapissime, imo interdum sanguinolentem secedere asserit Cl. Auctor, præmissis præmittendis ab omnibus symptomatibus vesicatorium applicatione, liberatus suit.

In some he says the belly is distended, and the tongue very dry, but in general it is sufficiently moist.

"In those who recover, the skin scales Desgua"off upon the sisth or sixth day, and
"one youth thirteen or sourteen years
"of age lost the cuticle from his hands
"and seet entire, excepting only the
"nails." - - - - He proceeds to observe that "unless the patient is re"lieved at the first attack of the dis"ease, gangrenous eschars appear at
"the bottom of the sauces towards the
"velum pendulum palati, and when

Quidem ventrem statibus distentum, et linguam valde siccam, plurimi vero humidam habent. Iis qui emergunt, epidermis, quinto vel sexto die per squamas decidit, quinimo adoloscenti tredecim vel quatuordecim annorum tota manus pedisque cuticula, exceptis unguibus, decidit. - - - - Nisi ægro statim in primo morbi impetu sucurratur, escharæ gangrænosæ in sundo saucium versus arcus et velum palati superveniant, et hisce ortis

this is the case, sew recover. This " gangrene frequently seizes upon the " œsophagus and the windpipe before " we perceive or endeavour to prevent " it. - - - - Some patients die upon " the fourth or the fifth day, with the " fymptoms of suffocation from a gan-" grenous inflammation of the lungs. "Others who die violently delirious, " discharge a large quantity of sanies " from the mouth and nostrils, and the " scarlet blotches after death sometimes "change to a violet colour. These " fymptoms in young children are far pauci emergunt. Hæc gangræna æsophagum asperamque arteriam sæpe ante occupat, quam illam percipere, illique medere queamus. - - - -- - - Quidam ac febre rubra affecti quarto, vel quinto die eodem modo pereunt, ac si per inflammationem gangrænosam pulmonum suffocati essent. Alii post vehemens delirium morientes, magnam saniei quantitatem per os et nares reddunt, et rubræ antea maculæ, post mortem in quibusdam prorsus violaceæ conspiciuntur. Hæc symptomata vero in infantibus longe minus violentia funt, remediisque facile cedunt.

" less violent, and easily yield to re-" medies.

In another place Navier fays, "it is "not unufual for young children to "have a fevere cough before the at-"tack of the Fever; which becomes "lefs troublesome when the Fever"comes on, and ceases along with it.

SAUVAGE in his Nosologia' Methodi-At Mont-ca \*, amongst other species of the pelier.

SCARLATINA, mentions the SCARLATINA

ANGINOSA of the year 1765. This

seems to agree very well with our disease. He says that (a) "in the sum-

- - - - - Infantes, hac febre Scarlatina decumbentes, ordinarie ante febrem tussi ferina laborarunt, quæ vero cum febre sese imminuit, et cum illa quoque cyanuit. D. de Navier. In Comment de rebus. Pars prima. Vol. 4. p. 338. Vide etiam Plenciz Tract. de Scarlatina.

## \*P. 454, Quarto edition.

" mer

<sup>(</sup>a) Hac æstate Monspelii viget apud infantes scarlatina, in qua totus truncus intense rubet cum voce rauca, et angina ulcerosa, imò in quibusdam gangrænosa. Sauvage Nosol. Meth. Class. 3. G.8. Sp. 6.

" mer of that year, a Scarlet Fever pre.
"vailed at Montpelier amongst young
"children. The whole body was in"tensely red, the voice hoarse, the
"throat ulcerated, sometimes gan"grenous."

Plenciz

PLENCIZ a physician at Vienna, in his Tractatus de Scarlatina has added something to the history of the disease. He is the first author that mentions the appearance of white blifters when the desquamation of the skin takes place, and he gives us the best account extant of the dropfical state that succeeds. He thinks the danger of the patients is greater from the dropfy than from the scarlet fever, but that was not the case with us. He takes some pains to investigate the cause of the disease, and is much more diffule upon the method of cure than any of his predecessors:

but these things will come to be noticed in their proper place.

milities of the state of the st

From the description of this disease as it existed at Birmingham, and from the accounts transmitted to us by other authors, the reader will I hope be enabled to attain a pretty accurate knowledge of it, notwithstanding its multifarious appearances. It only remains; in order to perfect the history, to relate the appearances found in the body Diffection after death, but this I have not been able to accomplish, nor do I know of any one that has. The only examination that I find upon record is that made by Doringius (a) a friend to Sennertus. He relates the case of a boy that furvived the first attack of fever, but afterwards " had swelled feet,

<sup>(</sup>a) Ita observavit Cl. D. M. Doringius, ut literis ad me datis scripsit, puerum quendam Uratislaviæ post hunc morbum pedibus, cruribus, scroto, ventro ac sacie intu-

" legs, scrotum, belly and face; a flush-

" ing in his cheeks, an irregular fever,

" a cough attended with a frothy pitu-

"itous expectoration, and great diffi-

" culty in breathing. Seven days be-

" fore his death, after most laborious

" and rattling breathing, with a fense

" of oppression at his chest, upon the

" breaking of an abscess he coughed up

" pus and black blood. Seven days

" afterwards being attacked again with

" fimilar symptoms, he died.

"Upon opening the body the whole cavity of the cheft was filled with yellow water; both lobes of the lungs

muisse, cum genarum nonulla ac perpetuoque rubore, sebricula irregulari, tussique paucâ, eaque spumosa saltem et pituitosa rejiciebat, dissicultate respirandi summa. Hic septimo die antequam moreretur, post summam respirandi dissicultatem, ponderis sensum circa pectus, ac stertorem, pulmonis abscessu rupto pus et sanguinem atrum tussi rejecit, et huic septimo ab illo paroxysmo die, cum eadem symptomata redirent, mortuus est. Corpore aperto, tota pectoris cavitas aqua citrina repleta, pulmo-

" were livid and gangrenous; a large

" abscess was found in the left. The ca-

" vity of the abdomen was filled with

" a similar watery fluid. The omentum

" nearly wasted. The liver pale in

" colour, and in proportion to the fub-

" ject, of an amazing fize."

nesque ambo toti lividi et gangrænosi conspiciebantur, et sinister magnum intus abscessum sovebat. Abdomine aperto innatabant intestina tota simili aqua: omentum prope consumptum videbatur. Hepar quod pro individui ratione portentosæ suit magnitudinis, sub-pallidum. Sennertus Lib. 4. Cap. 12, p. 191. Edit. 1650

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Of the diagnostick Symptoms.

respondent in the Medicine of the participation of the contraction of

is so nearly related to some other severs, that it is not always easy to distinguish them without having an eye to the prevailing epidemic of the season. An attempt therefore to point out the characteristic differences cannot be unacceptable.

Petechial fevers.

In fevers of the Petechial kind the eruption feldom appears before the fourth day; it confifts of distinct spots, regular in their form, and principally occupying the neck, the back and the loins. But in the Scarlet Fever the eruption generally appears about the third day; consists either of broad blotches or

else one continued redness, which spreads over the face and the whole body.

Of the Streetman Symptoms

In the fever called Purpura the pustules Purple Fever. are prominent, keep their colour under pressure, and never appear early in the disease. Whereas in the Scarlet Fever the eruption appears early after the attack, is not prominent, but perfectly smooth to the touch, and becomes quite white under pressure. These diseases are certainly distinct in themselves, and not mere modifications in the eruption only, though they feem connected by some general cause, for we had several examples of the true Purpura at the time the Scarlatina prevailed; but I know a gentleman who first had the Scarlatina, and shortly afterwards the Purpura: now I never yet have feen an instance of the same person having the Scarlet Fever twice, and I believe it to

be as great an improbability as a repetition of the small-pox.

Meafles:

The Measles are so nearly allied to the Scarlet Fever, that we find fome of the best medical writers considering the diseases as no way differing, but in the mode of the eruption; the former rifing above the skin, and limited in their extent, the latter smooth and univerfally diffused. But not to mention that the patients who had gone through the measles were equally subject with others to the Scarlatina, we may obferve that the cough, the running at the nose, the watery eye; symptoms so predominant in the early flate of the former, are never found to exist in the latter. I confess to have met with one case of the Scarlatina in which a troublesome cough arose upon the seventh day, and disappeared on the tenth,

but in the measles it is a leading fymptom, and continues not only during the eruption, but commonly for many days afterward.

The Erysipelas may in many circum-Erysipelas stances vie with the Scarlatina, but the limited feat of the former, together with its not being contagious, at least in our climate, is sufficient to distinguish it from the latter. We may likewife take into the account, that in the most frequent species of the erysipelas there is a constant oozing of an acrid watery fluid from the inflamed parts, which is never the case in the Scarlatina.

In addition to the above distinctions, we may remark, that the Sore Throat, one of the symptoms most observable in our epidemia, is either almost or al-MOUND

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together wanting in these congenial diseases:

Ulcerated Throat.

There's yet canother disease so much resembling our epidemie in many of its leading fymptoms, that I acknowledge it is not an easy task to distinst guish them; and yet the distinction is al matter of the greatest importance, as the method of treatment ought to be extremely different. The reader will readily guess that I allude to the Angina Gangrænosa or ulcerated Sore Throat. They are both epidemic, they are both contagious: the mode of seizure, the Great re-femblance. first appearances in the throat, are nearly the same in both; a red efflo: rescence upon the skin, a great tendency to delirium and a frequent, fmall, unsteady pulse, are likewise common to both---with features fo firikingly alike, and those too of the most 1911,000... obvious

## AND SORE THROAT.

obvious kind, is it to be wondered that many practitioners confidered them as the fame disease? that others though sensible of some little differences, still concluded them to be of the same nature; both putrid, and both demanding a similar mode of treatment? those who can answer these questions in the affirmative, must feel themselves possessed of greater penetration than I can boast of.

But though the resemblance may at first sight betray us into error, the attentive practitioner will not long be satisfied with a mode of treatment in which the noblest medicines sail of their usual effects: he will meet with cases in which the dissimilarity is sufficiently obvious: he will soon attain a discrimination adequate to every useful purpose: but perhaps he will

of the revier it will be convenient to

never be able precisely to draw the line where the light begins and where the penumbra ends.

Part programme This Shift and Part and only

Doctor Fotherchel, by his excellent account of the Sore Throat attended with ulcers, has furnished us with the means of drawing such a comparative view of the two diseases, as will I hope in a great measure obviate the possibility of mistaking them. For the ease of the reader it will be convenient to contrast them in a tabular form.

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Visit 9

Scarlatina Anginosa.

Season. Summer--autumn.

Air. Hot --- dry.

Places. High----dry --- gra-velly.

Subjects. Vigorous----both fexes alike----robust in most danger.

Skin. Full fcarlet---fmooth
---if pimply the pimples
white at the top--always
dry and hot.

Eyes. Shining, equable, intense redness----rarely watery.

Throat. In fummer, tonfills, &c. little tumefied ----no floughs----in autumn more fwelled---integuments feparating---floughs white.

Breath. Very hot, but not feetid.

Voice. In fummer natural.

Bowels. Regular at the accession.

Blood. Buffy---firm.

Termination. The 3d, 5th, 8th, or 11th day.

Nature. Inflammatory.

Angina Gangranosa.

Season. Spring----winter.

Air. Warm---moist.

Places. Close---low---damp

Subjects. Delicate---women and female children--ro-bust adults not in danger.

Skin. Red tinge--pimply-the pimples redder than
the interstices---bedewed
with sweat towards morn.

Eyes. Inflamed and watery, or funk and dead.

Throat. Tonfills, &c. confiderably fwelled and ulcerated---floughs dark brown.

Breath. Offensive to the patients and their affishants.

Voice. Flat and rattling.

Bowels. Purging at the accession.

Blood. Florid --- tender.

Termination. No stated period.

Nature. Putrid.

It is not pretended that all the above contrasted symptoms will be met with in every case; it is enough if some of them appear, and that if conjoined with the consideration of the prevailing constitution, they will enable us to direct that mode of proceeding which will most contribute to the relief of the sick.

Second contagion

Perhaps one other circumstance may assist us in forming an opinion of the disease. It is well known that those who have once had the ulcerated fore throat, are more liable than others to be attacked by it again; but I am perfwaded that a person may as soon have the measles or small-pox a second time as the Scarlet Fever and Sore Throat. However the succession of these diseases is not incompatible; for I attended the children of one family who had the ulcerated Sore Throat in May, and the Scarlet Fever and Sore Throat in the August following. The state of the state of

me all a localities of the desired dry and cold;

s' through day, and reme vally mus.

Of the Caufes of the Scarlet Fever and Sore Throat.

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we have If he strill is heggen in allows if TOW far the appearance of this General disease depends upon the constitution of the air, how far upon the temperature of our bodies influenced by the productions of the seasons, and how far again upon the concomitant existence of other diseases, are matters that nothing but the experience of ages can determine. Schulzius observes t, that the winter of the year 1664, in Poland, was mild and rainy; the Scarlatina Anginosa appeared early in the following spring, and raged all summer Seasons. and autumn, even until the winter following. The last winter with us was uncom-

† Loco citato.

D 4

monly

monly mild; the spring dry and cold; the fummer dry, and remarkably hot. In October the air was unufually cold. November was a wet month; the first week cold, the middle of the month warm. The disease began in May; it raged with great violence in June, July, and August; in September the scarlet colour was less intense, and in October the skin was frequently not at all affected, but the Fever in other respects nearly the same, and the complaints in the throat greatly augmented. In the warm weeks of November, the fcarlet colour was more frequent again .--- During the months of September, October, and November, the instances of the disease in the town of Birmingham were fewer than in the four preceding months; but during the former part of that period, all the towns and villages in the neighbourhood,

bourhood, and many separate houses, in high, dry, gravelly fituations fuf-Situations fered greatly; whilst the inhabitants of wet, low, or sheltered places, either knew not the disease at all, or if they did, it was only in its mildest form .---The product of vegetable substances Diet. this year was great; indeed it was univerfally allowed that the crops of almost every kind were greater than they had been for many years past .--- It has been already remarked, that the smallpox, the measles, the hooping cough, were with us the concomitants of the Scarlet Fever, and that it was preceded in the winter and spring by the ulce-Other diseases. rated Sore Throat. NAVIER too remarks \* that it fucceeded to the fmallpox; and Morton observed it to prevail together with the measles.

<sup>\*</sup> Loco citato.

Donal grood, and repair topo michanical

Morton's opinion.

3 4 5

As to the immediate cause of this disease, those who are best acquainted with the present impersect state of knowledge are the least likely to expect a satisfactory answer to such an enquiry. Morton says (a) "it is a "poison defiling the animal spirits, "whose malignity does not only over-"whelm the spirits in its first attack, "but breaks down the mass of blood "by agitation, into an acrid colluvies, "more powerfully than any other "ferment."----

NAVIER (b) thinks the cause of the Scarlatina Anginosa is something acrid,

Prediction of the late of the prediction of the late o

- (a) Causa morbillorum continens seu immediata est Venenum spiritus inquinans, quod non tantum in primo morbi stadio malignitate sua spiritus obruit, sed massam sanguinis agitando eam in colluviem acrem, præ cæteris omnibus sermentis colliquesacit. Loc. citat.
- (b) Causam hujus morbi non solum cum illa, quæ sudoremanglicam, aphtham gangrænosam, dysenteriam,

caustic

caustic and putrefactive, like that of the measles. He believes that a similar Navier's cause produces the sweating sickness, op the gangrenous aphthæ, the dysentery; and that it is analogous to the distemper amongst the cattle. He endeavours to support this last opinion by observing that when the cattle recover they lose their hair, and their skin peels off: when they die, the vifcera are always more or less in a gangrenous state. Hence he concludes, that our difease was communicated by contagion from cattle to mankind. He

&c. excitavit, eandem esse dicit, sed in miasmate, quod cum morbilloso comparat, acri caussica et putresaciente consistere ipsumque morbum analogiam alere perhibet cum morbo epidemico pecorum. His enim convalescentibus pili et epidermis eodem modo deciderunt, ac hominibus cuticula, et in cadaveribus pecorum apertis semper viscera quædam gangrænosa invenit Cl. Auctor.

Ex pecorum igitur morbo hanc febrem per contagium ortum esse arbitratur, eandemque cum variolis ideoquoque convenire asserit, quia magnus infantum numerus candem brevi ante vel post variolas habuerit.

Plenciz tractat.

thinks

thinks too it is some how connected with the small-pox, because a great number of children had it a little before or a little after the small-pox.

Plenciz opinion.

PLENCIZ \* attributes the effects to certain animated seminal particles, Semina animata, which he thinks are capable of multiplying their kind. He supposes they may be wasted by the winds to considerable distances, or that they may sometimes lie dormant a long time in the body; and thus he accounts for the production of the disease, when it did not previously exist in the neighbourhood.

But whether the disease is caused by animalcula capable of generating their kind, or by certain miasmata which have the property of assimilating other

particles

<sup>\*</sup> Tract. de Scarlat. p. 64---68.

Market History of Physics of the Market Mills

particles of matter to their own nature,
by some mode of sermentation hithertobut little understood, there can be no
doubt but it is contagious, and per-Contagious
haps so in a degree nearly equal to the
small-pox and measles.

I have repeatedly had occasion to observe, that it is upon the third or fourth day after exposure to the contagion, that the patients begin to complain. Its first effect is evidently that First effect. of a poison of the sedative kind acting upon the nervous system. Its first seat feems to be the pituitary or Schneiderian membrane, every part of which it prefently pervades, passing from thence down the cosophagus to the stomach, down the larynx to the lungs, along the Eustachian tubes to the ears, from the nose to the eyes and to the brain itself.

Brutter allowers of the trade allowers

Scarlet co- The redness of the skin does not ne-

ceffarily simply a determination of the poison to the surface of the body; because we know inflances of a similar effect being almost instantaneously produced by certain affections of the stomach. How many people after eating muscles\* have we not heard of, that have experienced great anxiety, prefently followed by a general redness upon the skin; and which again was as foon removed by the exhibition of a vomit to discharge the poisonous cause! Who has not obof the sto-served the full scarlet flush upon the face after eating herrings, or vinegar; after drinking acetous beer or cyder?

Affection mach.

od The son

. \* Mytilus edulis.

Can any body suppose that in the one

case theossending matter is instantly con-

veyed to the skin? or that in the other

it is carried from thence instantane-

oully as the contents of the stomach are evacuated? Tupus Initials Raff

-Justin inc. hawei, tonal destar

I know a young lady to whose constitution oatmeal is so completely poifonous, that in a few minutes after fwallowing the smallest quantity, a general fcarlet colour, accompanied by a fensible tumefaction, takes place upon the skin; and I know aggentleman who has frequently experienced similar effects from eating sweets almonds. and son si

we that and a tabhance capable of de-

I shall only add further upon this subject, that the effects of acids just now mentioned like those ascribed to the miafmata of the Scarlatina Anginofa, are by far the most remarkable in hot weather.

by However wain outer happy may be At the time when the disease prevail; ed here in its fullest force, and every one was alarmed for himself and his con-4530,55991

nections,

64

Prophy-

nections, the beat preventive method was anxiously enquired after. Some smoked, some chewed, and others snuffed tobacco: some daubed their hands and faces with thieves vinegar; many wore camphor at the pit of the stomach, and still more swallowed bark and Port wine. But those who were much conversant with the disease, had too ample occasion to observe that none of these methods were effectual. Would it not be as reasonable to expect that we shall find a substance capable of destroying the activity of the small-pox matter, as that we can hope for one which shall prove a prophylactic to the Scarlet Fever and Sore Throat? for the mult registly this in but weather,

However vain our hopes may be, built upon such a soundation, yet if my conjectures are true, that the poison first makes its lodgement upon the mucus separated

feparated by the pituitary membrane lining the nose and fauces, it will be of some consequence to those who from their attendance upon the sick are necessarily exposed to the infection, to hawk up and spit out frequently the mucus that collects in the sauces, and likewise to promote the discharge of that which lodges in the nostrils.

From the same consideration I am led to advise those who having already imbibed the poison, are seized with the first symptoms of the disease, immediately to take an emetic; frequently to wash their sauces with soap-leys diluted with water; and to snuff something up the nose that will make them sneeze. The first and last of these indications are sufficiently obvious; and the other is sounded upon the facility with which the caustic fixed alkaly dissolves mucus,

and the quality it has of destroying all the peculiar properties of animal matter. If these precautions are attended to, I can venture to assert, from a pretty large experience, that the infection will either be altogether prevented, or else very trisling in its confequences. After the operation of the emetic, I generally direct the patient to go to bed, and drink plentifully of wine whey with spirits of hartshorn.



## Method of CURE.

MONGST the multiplicity of medical writers, only a few have favoured us with a description of the Scarlet Fever and Sore Throat; and fewer Aill with the method of cure.

MORTON, confidering this and the measles to be the same disease, directs the practice to be the same in both; and in this he is a much better guide than those who have written more expressly upon the subject. I can believe that the constitutions of the natives in different parts of Europe, will allow of a considerable difference in the method of treatment; but I am persuaded that those who practice in England with E 2 fuccess.

fucçess, will find more occasions to depart from, than to concur with the methods advised by the French and German authors.

Instead of tracing the progressional steps of the disease over again, and pointing out the plan of treatment in every different stage of its course, and under the variously different appearances which it is so ready to adopt; I believe it will be the shorter way to consider the different remedies as they occur, and to point out how far I have sound them in real practice to be useful or detrimental; and afterwards to subjoin a sew cases, the better to illustrate the mode of application.

But preparatory to this, I must beg the attention of the reader to a few principles, which did not derive their origin origin from any preconceived theory, nor from any predifpolition to particular opinions, but from actual observation; and as such I offer them as matters of fact; under a full persuafion that those, who after an attentive consideration of the disease, appear to differ from me in opinion, will in reality find that difference to consist more in words than in sentiments.

1. The immediate cause of this disease, is a poison of a peculiar kind, communicable by contagion.

2. This poison first takes possession of the mucous membrane lining the fauces and the nose, and either by its action upon the secretory glands, or upon the mucus itself, assimilates that mucus to its own nature.

- 3. That it is from this beginning, and from this only, that it spreads to the stomach, &c. and at length acts upon the system at large.
- 4. That its first action upon the nerves, is that of a sedative or debilitating power.
- Jaws of the nervous system, when the debilitating effects operate upon the Sensorium commune, a reaction takes place; and that this reaction is, cateris paribus, proportioned to the debilitating power.
- 6. That in consequence of this reaction of the nervous system, the vibratory motion of the capillary blood-vessels dependant thereon, is greatly

greatly increased, an unusually large quantity of blood is accumulated in those vessels; the heart and large arteries are deprived of their customary proportion; and hence, though stimulated to more frequent contraction, the pulse must necessarily be feeble.

7. Violent exertions are followed by debility. Upon the cessation of the fever, the capillary vessels which had acted with such unusual violence, are left in a state of extreme debility, and are long in recovering their tone; hence it is that so many patients afterwards become dropsical.----

If these positions are true, they will enable us to direct our practice with a tolerable degree of certainty; they

will point out the way to further Improvements, and they will affift us in judging of the probable fuccess of methods which have been advised, but which we dare not adopt. Of this kind is

Bleeding.

BLOOD-LETTING. Plenciz and Navier advise us to use the lancet. The former in more general practice, but the latter confines it to cases wherein the inflammatory symptoms run very high. (a) He directs to bleed in the arm, but in case of delirium or coma, to open the jugular vein.

Our own countryman Morton, says we should not bleed without evident reason.

(a) Venesectio interdum ob vehementiam inflammationis summe necessaria est. Præsert vero venesectionem in brachio, illam enim in pede institutam, varia sæpius exceperunt incommoda, in primis si viscera, quod sæpissime sieri asserit, inslammatione quodam assecta suerunt. In delirio vero vel comate, jugularem quoque secare curavit. Navier, Comment. de rebus, &c. Pars 1. vol. 4. p. 340.

Indeed

Indeed fuch was the state of the pulse with us during the summer months, that I never faw a case in which blood was taken away: nor would it be easy to conceive with what view the boldest, or the most ignorant practitioner would have dared to attempt it; for in those cases where the inflammation upon the furface is very great, the loss of blood can only contribute to the further depletion of the larger vessels, and thereby increase the debility and faintness which already exist in a most alarming degree; for the fmall veffels accumulating the blood more in consequence of their own action, than from the pulse of the heart, would not be affected by the usual mode of blood-letting; and the extent of the inflammation is much too great to allow us to have recourse to topical bleedings.

Sometimes

Sometimes where the fiery redness of the eyes and the state of delirium feemed to demand the application of leeches to the temples, I have feen them applied; but never with any good effect. In one instance where the constant rejection of every thing that was fwallowed, even fimple water, and the pain in the slomach during the efforts, feemed to indicate an inflammation in that organ, blood was taken away, notwithstanding the feebleness of the pulse. The blood was fizy. The bleeding was repeated; but no very evident advantage accrued to the patient. I think therefore we may conclude that when the scarlet colour upon the skin is intense, we cannot expect to benefit either from topical or general bleedings.

In the autumn when the scarlet colour of the skin was seldom very intense, and often did not appear at all, the tumefaction of the fauces, was generally much greater, and the pulse considerably more firm. In this case, if the patient was threatened with suffocation, if violent head-ache, or if peripneumonic fymptoms pointed out the expediency of blood-letting, it was fometimes done; but still with less advantage than one would have expected in almost any other situation; and similar symptoms in other patients were much more effectually relieved by

Vomiting. It is very remarkable that neither Navier nor Plenciz, after having entered more particularly into the method of cure than any other writers, have never fo much as mentioned

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Vomiting.

tioned the use of emetics.-Vomiting seems to be the remedy of nature: it stands foremost in her efforts to throw off the cause of the disease: it most amply fulfils the indications arifing both from a confideration of the cause and of the effects. If we want to dislodge a poifon from the fauces, and the mucous membrane of the nose, and to prevent its descent to the stomach, how shall we do it so effectually as by emetics? if the poison already acting upon the nervous fystem, destroys the equilibrium of the circulating powers, how can we so readily restore that equilibrium as by emetics? Does not the experience of every day confirm their efficacy in a variety of disorders dependant upon local congestions?

But not to proceed further with questions that cannot fail to be answered in the affirmative, I will venture to affert that the liberal use of emetics, is the true foundation for successful practice in the Scarlet Fever and Sore Throat.

In the very first attack, a vomit seldom fails to remove the disease at once——if the poison has begun to exert its effects upon the nervous system, emetics stop its further progress, and the patients quickly recover. If it has proceeded still surther and occasioned that amazing action in the capillaries, which exists when the scarlet colour of the skin takes place, vomiting never fails to procure a respite to the anxiety, the faintness, the delirium.

In autumn when the throat was more affected; when the tumefaction of the fauces was such that the patients could

could not swallow but with the utmost difficulty: when the peripneumonic fymptoms threatened fuffocation, and bleeding withheld its accustomed aid; an emetic opened the gullet, and unloaded the lungs, fo that deglutition became easy, and respiration free.

Strong vo- But it is necessary to add, that a vomit only fufficiently strong to evacuate the contents of the flomach, is by no means adequate to these effects. The vomit must be powerful, and in ordinary cases repeated once in forty-eight hours. In those with more urgent fymptoms daily, and in the worst cases twice in twenty-four hours. The patients never fail to express the relief they find after the operation, and the physician foon discovers it in the countenance and in the pulse. As to the formule of emetics the practitioner may

vary it as he pleases; but I generally combine the tartar emetic with the ipe-cacuanha, that the purgative property of the one may be obviated by the nauseating quality of the other, at the same time that I wish to secure a certain violence of action upon the system. (a)

(a) In the true quinfy, or angina inflammatoria, I have used emetics for many years past with the greatest success. If the vomit is given the first or second day of the disease, and the patient keeps in bed a few hours afterwards, drinks gruel freely, and takes the tartar emetic in smaller doses to promote perspiration, he rises persectly cured. If the inflammation has proceeded to fuch a length-as to prevent deglutition altogether; a little tartar emetic repeatedly put back in the mouth and fuffered to dissolve there, will in time excite a vomiting. After the first discharge from the stomach, the patient is able to swallow a large draught of gruel, and thus to continue the operation. The most urgent symptoms are instantaneously relieved, and in a day or two sometimes with, and fometimes without repeating the emetic, he is quite well. If the inflammatory process has so far been suffered to proceed that matter is already formed; vomiting promotes the rupture of the abfcefs, and dispels the furrounding inflammation. There may be cases in which bleeding is absolutely necessary, but I never yet met with one of those cases. I never direct any other medicine either internal or external, except an injected, gargle to promote the discharge of the viscid mucus.

PURGING.

Purging. I confider the action of purgatives as altogether repugnant to the curative indications in this disease. If the poison is received into the system in the manner I suspect; the operation of a purge, instead of discharging it, can only promote its diffusion along the alimentary canal---but waving that consideration, let us enquire what benefit can be expected from purgatives. Their most obvious operation is the emptying of the guts, and thereby lessening the tension of the abdominal muscles. But we have shewn that the anxiety, the debility, the faintness, are in a great measure owing to the want of fullness in the larger blood-vessels; and a want. of pressure upon them will produce the same effects. Hence the necessity of bandage when we hastily remove the water in an ascites----through the whole

course

Purging.

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course of the disease, the belly is in Purging general very regular in its discharges; fuddenly fatal. but if a purging spontaneously supervenes, the patients fink fo amazingly fast, that it is not within the reach of art to support them. Under these circumstances I have known a person so little indisposed as to dine below stairs one day, and yet upon a purging supervening, to die before the next day noon. Sauvage after a vomit advises purges; but he adds that the patients very often died.

residily he radinced to give them I Sudorifics. Cordials. Alexiphar-Mics. The medicines generally fignified by these denominations have but sweating. little to do in the cure of the Scarlatina anginosa. The patients are not disposed to fweat when the scarlet prevails upon the skin, nor do I know of any safe method by which we could attempt to excife a diaphoresis, even if we should ex-

pect

pect it to be advantageous. Under the autumnal appearance, when the skin had none of the scarlet colour, a warm bed, and warm diluents would easily induce a moisture upon it, but I never faw any evident advantage to be the consequence. selection of the health while sure day

Cordials hurtful.

CORDIALS feem to be indicated by the great lofs of strength and the feeble pulse; but those who are aware of the true cause of this debility will not readily be induced to give them. I have known them given, but the certain consequence was an increase of the restlessness, of the delirium, and of the heat. Morton advises the mild alexipharmics, by which he means distilled waters and compound powder of contrayerva. Having observed the mild and gently stimulating effects of the contrayerva to be particularly grateful 3 4.

to the fauces, I have in many instances used it, and mostly in conjunction with testaceous powders, which sit easy on the stomach, and counterast the tendency to purging; the camphor julep too gives nearly the same pleasing sensation to the throat.

Frankly and John Cally

DIURETICS. This too is a mode of relief altogether unnoticed by authors, and yet, next to emetics, the most to be depended upon in the cure of the disease. Diuretics Some of the first cases I saw were cases of the most malignant tendency. Amongst other remedies I gave the seneka root; and frequently with advantage. But I foon had occasion to remark, that it procured relief only when it occasioned a copious flow of urine. This led me to the trial of other diuretics: but out of the numerous articles that are enumerated under that title, the

the selection was difficult. Vegetable acids were neither pleasing to the palate nor grateful to the stomach; and their effects upon the bowels made me fear to use them. The vitriolic acid bid fair to assist us in several points of view, but upon repeated trials it deceived my expectations. Neutral salts did no better; indeed I did not venture to push them far, after observing that the common saline draught was but too apt to purge; and even in those cases where it could be used freely without that effect; the patients never feemed advantaged by it. The acrid vegetable diuretics, fuch as squills, were likely to be too offensive to the stomach. In this situation it was, that fome analagous reasonings, confirmed by the experience of a very senfible apothecary to whom I mentioned the subject, first directed me to the use of the vegetable fixed alkaly. Of this

I contrive to give a small quantity in almost every thing the patient drinks, so as to get down one or two drams every twenty-four hours. The volatile alkaly may likewise be given with advantage, but it is difficult to get a sufficient quantity of it swallowed.

Antiseptics. Acids have been noticed under the article of diuretics, and wine is included under that of cordials, therefore we proceed to the confideration of Peruvian bark, fixable air, and the dulcified mineral acids.

No medicine ever had a fairer or fuller trial in any disease, than the bark Peruvian had in our epidemic. The great prostration of strength, the seeble pulse, and the sharp heat upon the skin, with here and there a livid spot, were thought to be such undeniable evidences of the F3 putrid

putrid tendency of the disease, and of the broken texture of the blood, that the bark was poured down with a most unsparing hand. And again in the autumn the increased disease in the throat, and the floughed appearance of the tonfils, conspired to keep up the delufion. It was very generally believed that bark was the only medicine that: could be depended upon, and mankindl had not yet forgotten how many lives were lost in the first attacks of the ulcerated Sore Throat, before they became acquainted with the efficacy of the bark.

We have already remarked that it is not an easy matter to distinguish betwixt the ulcerated sore throat and the Scarlet Fever and Sore Throat, notwith standing the two diseases require such a very different mode of treatment.

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The heat of the skin, the prostration of strength, and the feeble pulse have been considered before; it remains to observe relative to the livid spots and the floughed tonfils, that the former only appear where the cutaneous inflammation runs to its highest state, and are most probably owing to the effused contents of a ruptured capillary bloodvessel: the latter are likewise the consequence of a very high degree of inflammation, which is often kept up by an improper use of the bark and cor-In some instances the inflammadials. tion attendant upon the disease is in itfelf sufficient to produce the sloughs, Does harm but they are generally the consequence of neglect or improper management; for if the patient from the beginning is treated upon the plan I advise, the sloughs either never appear, or if they F 4 have

have appeared never increase; and in twenty-four hours vanish altogether. But when that inflammation is still augmented by large and frequent doses of bark, it is aftonishing to see how much the tumefaction increases and how rapidly the whole lining of the fauces is converted into a flinking flough. It is true nevertheless that many patients recover who take bark. The fact feems to be, that in mild cases an improper mode of treatment is not highly detrimental: it is only in the more dangerous state of the disease that we can do much harm. And I am ready to confels that in two or three of the first bad cases I saw, misled by so many marks of putrescency, I gave the bark; but the consequences were not such as could justify a continuation of its use.

TOWN NEWSTREET

Plenciz

devers where or samulances in productive

Plenciz \* takes a good deal of pains to persuade us to the use of the bark; notwithstanding his general plan is that of the antiphlogistic kind; but he fays that bleeding ought to be premised. At the end of his book he gives us feventeen histories, six of which are instances of the simple Scarlet Fever of Sydenham; two of the dropfy confequent to our epidemic, and nine of the true epidemic fever. To only one of these he gave the bark, and that patient died. Morton met with some cases in which the sever intermitted. and then the bark was thrown in fuccessfully.

Finding that no good was to be expected from the bark, recourse was had to fixable air, which I had often used in

<sup>\*</sup> Tract. de Scarlatina, p. 103.

fevers where circumstances forbade the Fixable air use of bark; its sedative and antiseptic properties are now well known, and I expected to turn them to good account. But I was not at that time sufficiently acquainted with the nature of the disease. Fixable air therefore was used, but it seemed to do neither good nor harm.

Dulcified acids.

The dulcified mineral acids in small quantities produced no advantage; given more freely they increased the heat and inflammation. Bottled small beer and cyder were frequently asked for by the patients, and the first or second time swallowed with great avidity; but they soon disliked them, and even the attendants could not fail to remark the increase of heat and restlessness that they occasioned.

OPIATES.

OPIATES. In case of great inquietude and wakefulness, both Navier and Plenciz advise to give opium in small doses; Opium, but I never saw it effect the purpose for which it was given; on the contratry it visibly increased the distress of the patient.

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BLISTERS in the summer appearance of the disease, are universally detrimental; they never fail to hasten the delirium, and if the case is one of the worst kind, they too often confirm its fatal tendency. But when the pulse is so Blisters. feeble that the nicest singer can hardly count its strokes for a quarter of a minute together; when the oppression and anxiety of the patient is such as words can but ill describe; when the physician expects that a few hours more will annihilate a life already sunk to so low

an ebb, and when the friends will perhaps censure him if he forbears to try the efficacy of an application so universally, and I may add so indiscriminately used; it is not easy to resist the importunities of such symptoms under such circumstances.

Hurtful.

But to avoid a detail that would carry me to too great a length, suffice it to say, that after frequent opportunities of observing the events of cases in other respects similar, the blistered patients very often died, whilst those who were not blistered never failed to recover.

In the autumnal season, when the inflammation was less generally diffused through the body, blisters were less detrimental. If the brain was affected soon after the attack they did much mischief,

mischief, but if the inflammation was pretty much confined to the fauces, a blister was frequently applied round the throat, but with less advantage than the practice in quinsies, ulcerated sore. throats, and other local inflammations would teach one to expect.

GARGLES. In the summer the affection of the throat was frequently so tri- Injected fling as not to demand any particular attention; but when the inflammation and fwelling in the fauces became a principal cause of complaint, the use of gargles was very grateful to the patient. A decoction of contrayerva sweetened with oxymel of fquills is what I have most frequently used; sometimes barley water acidulated with the marine acid; and sometimes the tincture of roses. When these gargles are forcibly injected by means of a large pewter fyringe 76 17 17

fyringe with a long pipe to reach over the tongue, it is amazing to fee the quantity of viscid ropy stuff that is discharged, both from the fauces and nostrils. When there is a great dispofition to the formation of floughs in the throat, Navier advises (a) to gargle with a mixture of highly rectified spirits of wine camphorated, and oxymel; which he fays never fails to slop the progress of the gangrene. I am inclined to believe it is a good application, but have never had occasion to try it. After the fever abates, Sauvage uses a gargle of lime-water sweetened with honey.

Poultices. Cataplasms of different kinds have been applied round the neck, but I cannot add with any par-

<sup>(</sup>a) - - - Progressum vero hujus internæ gangrenæ quam certissime impedit gargarisma ex oxymelle cum adjecto spiritu vini camphorato, qui vero Hossmanni methodo sale alcali præparatus esse debet, ne aquosis mixtus lactescat. Navier in loc. citat.

I think the less additional covering is made to the throat the better.

a or sident to bound here dogs all at

WARM-BATHING. The immersion of the feet and legs in warm water, though sufficient to procure sleep and abate the delirium in several kinds of sever, is not attended with any fuch desirable effects in this; nor did I ever perceive it to do harm. In cold weather, when there was no inflammation upon the skin, and the legs and feet were cold, it rendered the patient more comfortable; and I am much inclined to believe that in the greatest degree of Tepid bath scarlet efflorescence which existed in the summer months, the use of a tepid bath would have been productive of the happiest effects: but this is a matter of opinion only.

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TEMPERATURE. In the heat of fummer it was hardly possible to keep the patients fufficiently cool. A mattress to lie upon was found preferable to a feather bed, with the lightest covering for the body, and a free circulation of air. Patients that could fit up, were allowed only to lie down occasionally, and those whose strength would admit of it, were ordered frequently out of doors. This method a little modified, did very well through the greatest part of autumn; but when the winter cold took place, it was necessary to keep them more in bed, and in a room moderately warmed.

DIET. Those who were only slightly indisposed were kept pretty much from animal food, and fermented liquors. Those in a worse situation were allowed tea, cossee, chocolate, milk and water, gruel,

gruel, barley water, &c. and occasionally weak wine whey, or nitre whey. But nothing was more acceptable than a full draught of water fresh drawn from the spring. In this the patients were indulged in every exacerbation of heat, restlessness, or delirium, and it seldom failed to procure a temporary abatement of these distressing symptoms.

When the Fever ceases I generally give a few grains of calomel, and work it off the next day with Rochelle salts or any other mild purgative. If the nights are still passed with watchfulness, opiates are directed; and in the day time bark with small doses of salt of steel. If the debility is considerable wine is allowed rather liberally; but nothing affords such immediate relief as the application of blisters.

Treatment in the Dropsical State.

AFTHER the leucophlegmatic appearances are necessary confequences of the Scarlet Fever and Sore Throat, in bodies particularly predisposed to become dropsical; or whether they are the result of negligent or improper management, I will not take upon me to determine: But it may be worth observation, that I never yet have met with an instance of a patient becoming dropsical, who had been treated, during the Fever, according to the method advised in the preceding pages.

When called upon to visit patients in this situation, I commonly begin with giving calomel at night, and a mild purgative in the morning.

and alkil los

If a febrile pulse attends the other fymptoms, an emetic is useful; the saline draught, and other neutral diuretic falts. In case of great debility, comatose, or peripneumonic symptoms, large and repeated blisters are of infinite service: But in the common cases, when the dropfical symptoms are the principal cause of complaint; small doses of calomel and rhubarb, occasionally to keep the bowels open; dilute folutions of fixed alkaly; fquills; Seltzer water; and other diuretics in daily practice, must be adapted to the dispofition and temperament of the patient. When the urine flows freely, steel-and other tonics must be employed, and the recovery will be greatly promoted by gentle exercise, high-seasoned food, wine, and the wearing of flannel in contact with the skin.

I cannot conclude this subject without noticing a remedy strongly recommended by Plenciz;† but not having had occasion to try it, the reader must depend upon his account of it.

#### R Rhei electi

Spiritus salis coagulati aa drachmas duas Mercurii dulcis

Auri fulminantis

Extracti scillæ aa drachmam dimidiam m. fiant pilul. c. rob juniperi, pondere unius alteriusve grani.

In the exhibition of this medicine the following precautions are to be observed.

(a) Firstly. One or two of these pills are to be given every second or third

<sup>†</sup> Tractatus de Scarlatina. P. 121.

<sup>(</sup>a) Primo, Quod una alterave harum pilularum omni bihorio, aut trihorio, pro diversa ætatis aliorumque cir-

hour; according to the age and strength of the patient. This quantity ought to procure three or four stools every day; but if it fails to do that, either the dose must be increased, or some purgative, such as extract of jallap, sulphurated scammony, or aloetic pill with scammony, must be added: by this means a salivation will be prevented. But

Secondly, the more effectually to prevent a falivation, the patient after each dose of the pills ought to drink some ounces of tea prepared with juniper berries, or a decoction of grass roots, warm.

cumstantiarum, ratione exhiberi debeat, quam dosim tres quatuorve sedes quotidie sequi debent, quæ si non succedant, tunc vel earum dosis augeri debet, vel prædictis pilulis magisterium mecoacanæ, aut diagridium sulphuratum, aut pilulæ Cochiæ addi possunt. Qua ratione dein salivatio impedietur. Quare

Secundo, Ut eo certius salivatio impediatur; debet æger post assumptas pilulas bibere calide aliquot uncias insus baccarum juniperi, aut decocti radicum graminis. Item

Thirdly.

Thirdly. After taking these pills for two or three days, they must be omitted a day or two.

I ertio, Postquam bidui aut tridui his pilulis usus suerit, debet ab earum usu una, alterove die abstinere.

Quarto, Si ab usu hujus remedii nimiæ turbæ in corpore concitari videantur, poterunt tales sopiri remediis paregoricis.

is not only in cachectic, leucophlegmatic, and dropfical cafes that this remedy is useful; but in the most obstinate alvine and urinary obstructions; provided they are not accompanied with inflammation.

So likewise in the suffocating catarrh, and in the humoral ashma, where chermes mineral, tartarised sulphur of antimony, squill, gum ammoniac, and other, even the most powerful remedies, produce no good effect, the aurum fulminans, with a grain or two of calomel affords an immediate relief.

non tantum in cachexia, leucophlegmatia, et hydrope, sed et in contumacissima alvi et urinæ obstructione, si inslammatio aberat, illud in usum vocabatur.

Item, In catarrho suffocativo, in asthmate humoroso, ubi chermes minerale, sulphur antimonii tartarisatum, scilla, gummi ammoniacum, aliaque, alias efficacissima remedia, inertio erant, aurum sulminans cum uno alterove grano mercurii dulcis, præsentaneum erat remedium. Plenciz. Tractatus 3. p. 124.

He further adds that this medicine was a fecret of Dr. Weber's of Furnberg, who used it with great success in a variety of obstinate chronical diseases.



### C A S E I.

A Young lady 12 years of age, was fuddenly feized in the evening with weariness, sickness, fore throat, and head-ache. A vomit was given the following day, and afterwards the bark. The third day the nausea still continuing, and the strength being greatly impaired, the vomit was repeated, the bark continued, and red wine negus directed for common drink.

The fourth day at noon I first was called in, and found her delirious, with a considerable degree of stupor. Her eyes of a fiery redness, her lips parched, her skin universally tumesied, of a full scarlet colour, and almost intolerably hot. Her tongue dry; her throat the colour

colour of her skin; her respiration quick, short, and sobbing; her pulse so rapid, so feeble, and so unsteady, as not to be counted.

I directed a vomit to be given immediately; (a) a large blifter to be applied betwixt the shoulders; a solution (b) to be put into a quart of white wine whey, and the whole to be taken in 24 hours.

Fifth day. Her condition nearly the fame. Had had no flool; urine small in quantity. The alkakine solution was continued; four grains of seneka root were given every four hours, and ten grains of James's powder at night.

<sup>(</sup>a) R. Rad. Ipecac. Gr. vi.
Tart. Emet. Gr. i. M. f. pulv.

<sup>(</sup>b) R Sal Absinthii z ii.
--- vol. ammon. zß.
Aquæ fontan. Zii M. s. solut.

The weather being very hot, the doors and windows of the room were conflantly kept open, and as much cold water as she would drink, was allowed every time she became more restless and delirious than usual.

Sixth day. Urine more plentiful. Her pulse could now be counted pretty certainly at 140 strokes in a minute. She had one stool in the night. Two blisters were applied to her legs, and a spoonful or two of a vomiting mixture (a) directed to be taken every four hours, or so as to keep up a pretty constant nausea.

Seventh day. Passed a better night. Pulse 125. Eyes less siery; slupor a-

<sup>(</sup>a) R. Tart. Emet. Gr. iii.
Vini Ipecac. z vi.
Cretæ ppt. z ii.
Aq. fontan. Z vi.
Syr. e Cort. Aurant. Zß M.

bated, and she could answer sensibly to two or three questions. The vomiting mixture was repeated.

Eighth day. Got some sound sleep for the first time. The heat and redness of the skin considerably abated. Pulse 90; sleady and sufficiently strong. Begins to call for food. As her belly had all along been rather costive, the following powder was directed. (a)

Ninth day. The feverish symptoms entirely gone. The skin peeling off. Urine plentiful, and depositing a farinaceous sediment. The following powder was ordered to be taken thrice every day. (b)

<sup>(</sup>a) R. Sal. Polychrest. 313. Rad. Rhei 3 i. Calomel. ppt. Gr. iii. M. s. pulv. statim sumend.

<sup>(</sup>b) R. Cort. Peruv. subtilis. pulv. 3i. Rad. Contrayerv. Gr. x. M. s. p.

In a few days she was carried out, and by the assistance of bark and steel soon recovered her accustomed health; but not without the loss of her hair.

REMARKS. The imminent danger that this young lady appeared to be in, occasioned the blisters to be directed; and I had not at that time seen so much of the disease as could enable me to decide with precision against their use. Fortunately for the patient, they never rose at all. She was evidently better after every vomiting, and after every draught of cold water. She was very desirous one day of bottled perry: it was allowed her, diluted with water; but an increase of her restlessness, heat, and short breathing was so evident to those who had the care of her, that they soon resused to give it her. The fauces fauces were never floughed, nor much tumefied. One of the nurses was soon afterwards seized with the same complaints, but by an early application of nearly the same remedies she presently recovered.

# C A S E II.

R. S——, a strong man, about 34 years of age, was seized with the usual symptoms of the worst kind of Scarlet Fever and Sore Throat. On the evening of the first day of the difease he called upon his apothecary, who gave him an emetic. The fecond day diuretics were prescribed, a gargle to his throat, a blifter to his back; and in the evening the vomit was repeated. Vomiting being observed to be followed by a remission of the symptoms, he took two vomits upon the third day, and

and expressed himself relieved after each. Upon the sourth day I first saw him, and sound him with a very quick seeble pulse, a skin universally scarlet and tumessed, exceedingly hot, breathing short, throat still sore; eyes red, great restlesses and delirium. A strong vomit was immediately prescribed, some powders composed of contrayerva and camphor, (a) and a diuretic solution.

He passed a restless night, but the fever abated the following day; ceased in a few hours afterwards; his skin peeled off, and in a short time he recovered perfectly.

<sup>(</sup>a) R. Rad. contrayery subt. pulv. Gr. xv.

Camphor. Gr. v. M. f. pulv. secundis vel tertiis
horis sumend.

R. Sal. absinthii z ii.

<sup>----</sup> vol. Ammon. 3 i.

Aquæ fontan. Zi. f. solut. in lib. ii. Seri vinose commiscend. et bibat æger liberaliter liquoris.

REMARKS. This was one of those cases in which the violence of the attack and the rapidity of the symptoms threatened the greatest danger. The alleviation of the distress of the patient after every vomit, was a proof of the propriety of that mode of treatment; but the quick recurrence of disagreeable fymptoms argued the fatal tendency of the disease. The blister was not applied, and to the omission of that I attribute the fafety of the patient; for where the violence of the inflammation can but barely be counterbalanced by the means we can command, the additional stimulus of a blister is sufficient to destroy the equilibrium.

### C A S E III.

A Boy fifteen years of age, at a boarding-school about six miles from this place, was seized on Monday the 26th of October, with giddiness, sickness, and vomiting. He continued to
play with his school-fellows'till the predominancy of the sickness prevented
him. He was cold and hot by sits; he
was weary; complained of head-ache
and a slight foreness in his throat.

Second day. The fymptoms continued with the addition of prickling and itching in his skin, which turned red where he scratched it. This day he took an emetic by the advice of his appothecary.

Third day. He was brought in a chaise to Birmingham.

Fourth day. I saw him, when he complained of great head-ache, sickness at times, and unusual weariness. The whole of his skin was of a deep violet colour,

colour, tending towards blackness. His tongue moist, of a whitish brown. Lips dry and parched. Throat nearly the colour of his skin, tumefied but not ulcerated or sloughed. Eyes pretty clear. Flesh not very hot. Pulse 120, moderately strong. He was ordered to take two spoonfuls of the vomiting mixture (a) every half hour, and afterwards an ounce of the decoction (b) every two hours. Cold water was allowed when he called for it, gruel and weak wine whey.

Fifth day. The vomit worked him a good deal, and he was somewhat reliev-

<sup>(</sup>a) R. Vini Ipecac. Zi.

Tart. Emetic. Gr. vi.

Aquæ fontan. Z vii. M.---

<sup>(</sup>b) R. Rad. Senekæ non contust 3 i. coque ex aquæ sontan. stiii ad sti. et colat. adde
Succ. Glychirr. 3 ii.
Sal. Absinthii 5 i. ß M.---

restless, but got some sleep towards morning. He had made plenty of urine, but it smelt so strong the nurse had it thrown away. A little redness was now visible in his eyes, towards the outer corners. Pulse soft; more steady than yesterday, 108. Lips not so dry. Throat less tumested; its colour, as well as that of the skin less intense. Had a small costive stool this morning. Repeat the vomit this evening, and continue the decoction.

Sixth day. Passed a good night. Urine in good quantity, less offensive to the smell, and its appearance nearly that of a healthy state. Throat quite well. Pulse 68, sirm. Skin turning brown. Appetite returning. Fisteen grains of rhubarb, and three of calomel were given this night at bed time.

Eighth

Eighth day. Continued free from complaints: flept well, eat well. Pulse 65. This morning, white blisters appeared upon several parts of his hands and fingers, which when cut discharged a small quantity of clear water.

REMARKS. The livid colour of the skin was thought in this case to indicate the highest degree of putrescency, and the most imminent danger to the patient: but I had learnt long before this to believe that the difease had nothing putrid in its hature; and when I considered the favorable appearance of the eyes, and the moderate velocity of the pulse, I could not coincide with the opinions that had been formed of the event. The white blifters have been mentioned by Plenciz, but he believes they never contain any fluid, and having

having frequently found that to be the case, I subscribed to his opinion; but as the blisters in this patient were filled with a watery fluid, I suppose they were so in others; only we did not happen to examine them until the fluid had been absorbed and evaporated.

#### CASE IV.

A Young Lady, near seven years of age, was seized on Friday the 30th of October with the usual symptoms of the Scarlatina anginosa. The scarlet colour appeared upon the skin the Sunday following, and began to vanish again on Tuesday, without any succeeding desquamation. She continued much indisposed until Thursday the 12th of November, when I was first desired to visit her.

H 3 Fourteenth

on the medica dio

Fourteenth day. I found her in a considerably sleepy state; much averse to being stirred. Her breathing difficult and rattling, particularly when lying down, for which reason she was generally kept upon the lap. Her skin dry; flesh not very hot: her pulse 136 in a minute. Tongue dry and brown in the middle; skin of her lips black and ragged. She was univerfally bloated, but her legs most so towards night. Her fauces appeared tumefied, and by the assistance of an injected gargle she throws up viscid mucus. Urine small in quantity, appetite altogether wanting.

She was directed to take four grains of James's powder, and to repeat the dose every hour for three times; afterwards two spoonfuls of a diuretic solution

Contract to the same of

tion (a) were given every fecond or third hour.

Fifteenth day. But little alteration. Continue the medicines.

Sixteenth day. Pulse 130. Urine more plentiful. In other respects nearly the same. (b) Six grains of sossil alkaly purified, were directed to be taken in solution every sour hours, and a gargle with oxymel of squills frequently injected into the throat.

Seventeenth day. Tongue clearer. In other respects but little alteration.

Eighteenth day. Discharges a great quantity of viscid, white, opake stuff

<sup>(</sup>a) R. Sal. Diuret. 3 iii.

Sacch. alb. 3 ii. ß

Sp<sup>t</sup>. Lav. comp. 3 ß

Aq. hordeat. 3 vi. M.---

<sup>(</sup>b) R. Calomel. ppt. Gr. iii.
Pulv. Test. Ostr. Gr. vi. M. s. p. statim sumend.

H 1 from

from her throat and nostrils. Tongue quite clean. Flesh not hot. Belly regular. Swelling something abated. Complains of great soreness in her wrists and ancles. Pulse still 130. She was directed to drink freely of Seltzer water.

Nineteenth day. Had a better night. Pulse 120. Went out in a chaise and seemed refreshed by it. The sleepiness and swelling abated.

Twentieth day. Passed a good night. Pulse now only 108, and much firmer. Urine plentiful and depositing a copious lateritious sediment. Soreness of her limbs, and swelling of her legs considerably decreased. The bark was now directed, Seltzer water for her common drink, and daily exercise in a chariot.

Twenty-

## AND SORE THROAT.

Twenty-first day. Had a very good night. Makes more water than ever. Appetite begins to return.

Twenty-second day. Pulse 96. Stood alone to-day for the first time.

Twenty-fourth day. Appetite very good. Pulse 84. Strong enough to walk about the room. Skin peeling off.----From this time her further recovery was rapid and uninterrupted.

Remarks. This young lady was first taken ill at a boarding-school some distance from Birmingham, so that I had no opportunity of knowing how she was treated in the beginning, but when I first saw her she was taking bark medicines. Her elder sister fell a victim to the same disease a short time before, and she I understood took bark and was blistered. A younger sister was taken ill upon Tuesday the 10th of November.

November. The third, fourth, and fifth day, she took a strong vomit; was allowed to drink freely of Seltzer water. Vomits were afterwards given every other day to promote the discharge of mucus from the throat and nostrils, and thus the cure was effected without the assistance of any other medicine.

# CASE V.

In the evening of the 15th of November with flight alternating heats and colds. Passed a very restless night, hardly sleeping sive minutes at a time. The next morning he selt his throat sore; complained of sickness; great pain in his head, back and limbs. Still hot and cold by sits. The third day his skin began to turn red, and he could not rest a minute for the trouble-some itching and pricking all over him.

Fourth

#### AND SORE THROAT.

Fourth day. I first saw him. His skin was now universally scarlet and intensely hot. His eyes red; his tongue white, except at the end and at the edges. His fauces of a full scarlet colour and swelled, but without any appearance of floughs or ulcers. He complained of thirst, and was frequently sick, his pulse 120; small, but not very feeble. He was exceedingly restless, and delirious whenever he closed his eyes. He had taken one vomit; powders of seneka and contrayerva, and a folution of falt of wormwood. These medicines were ordered to be continued, and a stronger vomit given tonight.

Fifth day. He vomited much, and afterwards had two purging flools. Had a bad night from reftlessness and painful soreness in all his limbs, which still continues. Throat less sore, and less swelled.

swelled. Scarlet colour of the skin nearly the same; but on the inside of the wrifts there are a few very minute pustules with white heads, visible through a magnifying glass. Head eafy; eyes not impatient of the light. Inclined to fickness when he fwallows any thing. Urine plentiful, of a natural colour, with a light mucous cloud floating in it. He was ordered to drink gruel, tea, and cold water. To take a powder (a) every four hours and a wine glass full of solution (b) at the intermediate times.

Sixth day. Passed a restless night, and somewhat delirious. Inclination to sickness ceased. Urine very plenti-

<sup>(</sup>a) R. Rad. Contrayerv. Gr. v. Test. Ostr. ppt 3 s. M. s. pulv.

<sup>(</sup>b) R. Sal. Sodæ 3 ii.

Extr. Glychirr. 3 i.

Aq. fontan.

---- Menth. vulg. fimpl. aa 3 iii. s.

---- Cinnam. Spt. 3 i. M.

ful. The scarlet on the upper part of his body less intense: that on his legs and thighs the same. Pulse 108. Complains chiefly of soreness all over him, but says he is much better. Let the same medicines be continued.

Seventh day. Little or no fleep in the night, being teafed with the appearances of strange images the moment he closed his eyes. Scarlet colour turning brown. Great foreness about his neck and shoulders, but in other respects much better; and able to sit up several times to-day. Pulse 98. He was ordered to take a purging bolus (a) at bedtime, his usual medicines the following day, and a composing draught (b) at night.

<sup>(</sup>a) R. Rad. Rhei Gr. xii.
Calomel. ppt. Gr. vi.
Conf. Rofar. 9 i.
Syrup. ut f. Bol.

<sup>(</sup>b) R. Syrup. e Mecon. 3ii.
Tinct. Thebaic. gutt. xv.
Aquæ Menth. vulg. simpl.
fontan. aa 3 vi. M.

#### OF THE SCARLET FEVER

Ninth day. Physic worked moderately. Passed the last night comfortably. Skin universally brown. Pulse 94. Eyes watery, and impatient of the light. Soreness partly gone. Appetite returning. The composing draught to be given again at night, and the next morning to begin with the tincture of bark and Virginia snake-root.

Eleventh day. Appetite good. Pulse 80. Eyes less tender. Skin peeling off. Tongue very fore, but nothing remarkable to be seen upon it.----From this time he continued mending daily, and was soon restored to health.

#### C A S E VI.

NRS. — a married lady, about thirty-five years of age, felt a fensation of rawness in her throat on Friday evening the 20th of November;

but passed a good night. The next morning she was chilly, and weary, with an aching all over her. These symptoms continued till eight at night, when she became very hot, and continued so until Sunday morning. The foreness in her throat was still but trisling. The preceding night she had taken sive grains of James's powder, which excited a pretty copious perspiration. She continued very much indisposed all Sunday, the feverish symptoms ran high, and a blifter was applied on the right fide of her neck. On Monday the feverish symptoms continued nearly the same: The left side of the fauces was now as much affected as the other, a blister was therefore applied to the left side of the throat.. Some white specks which had appeared in the throat before, were now increased so as to spread over both tonfils, and the back of the fauces. In this situation I was desired to visit her. I found her labouring under great anxiety; her countenance pale, her respiration difficult, her voice inarticulate, her pulse 130, rather irregular, but not very feeble. She had passed the night with such oppressive feelings about her chest and stomach that she durst not attempt to sleep, and her deglutition was now fo much impaired, and the attempt fo extremely painful, that nothing lefs than the greatest degree of fortitude could enable her to fwallow. She had hitherto taken bark freely, but it purged her: Small doses of laudanum were then added to prevent that effect, and the bark was continued to the amount of a dram of the powder every four hours, and two ounces of strong decoction with tincture in the intermediate times. When it was impossible to swallow any more bark, cordial draughts composed of con-Leaven's case I - Decord of the L.

fectio cardiaca and volatile falt were directed. She had felt her oppression and distress increase after every dose of the bark, but filled with the idea of her disease being putrid, and that nothing but the bark could stop the progress of the gangrenous sloughs, she had perfevered with unusual assiduity in the method prescribed.

I immediately ordered a vomit (a) which cost her very great exertion to get down. It acted in a short time, and she was sensibly relieved. When the sickness abated she took half one of the cordial draughts that was in readiness; asterwards a powder (b) every two hours,

<sup>(</sup>a) R. Tart. Emet. Gr. ii.
Vini Ipecac. Zi.
Aq. fontan. Zvi.
Acet. Scillit. Zii M. --.

<sup>(</sup>b) R. Rad. Senek. fubt. pulv. Gr. v. - - Contr. pulv. Gr. vii. Cretæ ppt. 3 ß M. f. pulv.

and used the gargle (a) very frequently with the assistance of a syringe.

Fifth day. Slept very comfortably for four hours in the night. The great oppression and anxiety removed. The sloughs in the sauces beginning to separate at the edges; her voice still inarticulate, and the act of deglutition considerably painful, but not so much so as to prevent her getting down her medicines and a sufficiency of liquid nourishment. Pulse 120.

From this time she continued mending. On the seventh day she was universally better and slept very comfortably. On the eighth day she eat solid

<sup>(</sup>a) R. Rad. Contrayerv. 3 fs.

Aquæ fontan. 3 xii. coque ad
3 viii et colat. adde
Oxymel. Scillit. 3 fs.
Sal. Absinth. 9 i M.

food for her dinner; and on the ninth the floughs in her throat were all cleared away. In the beginning of this difeafe her urine was fmall in quantity, but as she grew better it became very considerable. The syringing occasioned very great quantities of viscid mucus to be discharged from her throat and nostrils. Through the whole course of the disease she had a great tendency to delirium whenever she attempted to fleep. As she recovered her skin peeled off; and she was tormented for some days with a great foreness of her tongue.

REMARKS. The tendency to the formation of gangrenous floughs in the throat, feems to be nearly proportioned to the violence of the inflammation. If this inflammation is increased by improper treatment, formed upon the idea of the disease being putrid, the confequences

flammation, and of the gangrene. But if emetics are exhibited at first, and occasionally repeated, I never see the sloughs continue for twenty-sour hours. It is observable that in this case the defquamation of the skin took place, notwithstanding there was neither eruption nor discoloration at any time of the disease.

THE END.











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